

DOLLY TRAILER CONVERTER, SEMI-TRAILER, HEAVY, MC4 HAULMARK

DATA SUMMARY

This instruction is authorised for use by command of the Chief of Army. It provides direction, mandatory controls and procedures for the operation, maintenance and support of equipment. Personnel are to carry out any action required by this instruction in accordance with EMEI General A 001.

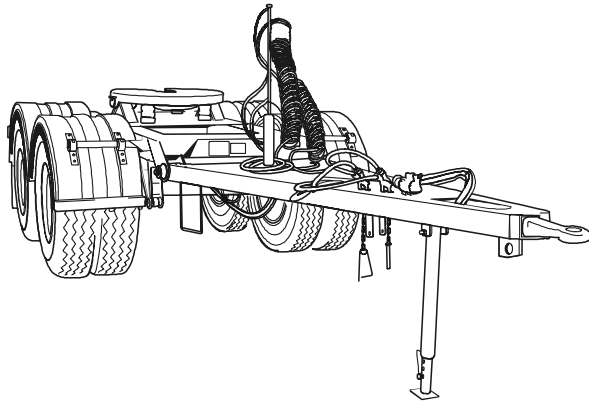


Figure 1
Dolly Converter, 20CD4 - Front view

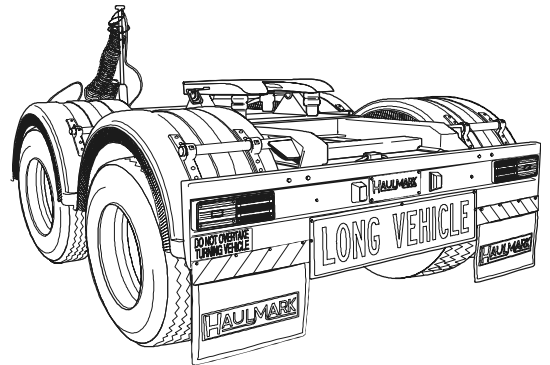


Figure 2
Dolly Converter, 20CD4 - Rear view

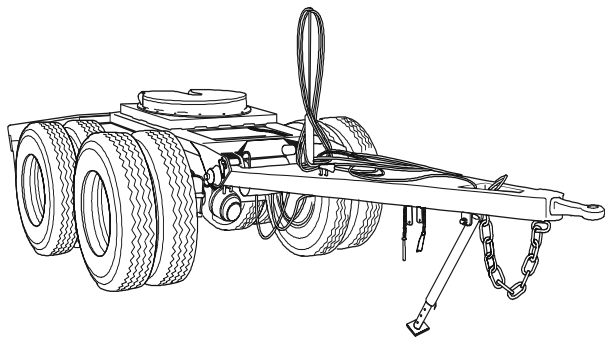


Figure 3
Dolly Converter, 20CD2 - Front view

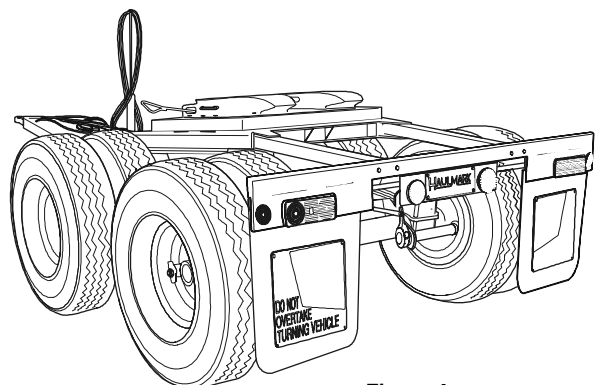


Figure 4
Dolly Converter, 20CD2 - Rear view

General

1. This EMEI lists the basic data for the Dolly Trailer Converter, Semi-Trailer, Heavy, MC4 Haulmark, as shown in Figures 1 to 4.

2. **Role.** The primary role of these dolly converters is to allow the connection of a trailer to another trailer, thus building a road train configuration.

3. **Description.** The Dolly Trailer Converter, Semi-Trailer, Heavy, MC4 Haulmark, is a two axle, prefabricated all steel construction. The dolly converters are capable of carrying a loading of 13 600 kg, which would give a minimum ATM of 16 500 kg. This EMEI has been designed to cover the 20CD2 model dolly converter which has single point suspension, and the 20CD4 model dolly converter which has tandem equaliser type suspension and two different drawbars.

4. Scheduled preventive maintenance tasks are to be monitored by RAEME personnel.

Physical Data

5. **Mass - 20CD2:**

- a. Unladen 3180 kg
- b. Maximum loading..... 16 820 kg
- c. ATM..... 20 000 kg

6. **Mass - 20CD4 - Long Drawbar:**

- a. Unladen 2900 kg
- b. Maximum loading..... 13 600 kg
- c. ATM 16 500 kg

7. **Mass - 20CD4 - Short Drawbar:**

- a. Unladen 2860 kg
- b. Maximum loading..... 17 140 kg
- c. ATM 20 000 kg

8. **Wheels and tyres:**

- a. Wheels 8.25 x 22.5 tubeless
- b. Tyre size 11R22.5 by 16 ply
- c. Tyre pressure 690 kPa (100 psi).

9. **Dimensions - 20CD4 - Tandem - Long Drawbar:**

- a. Length
 - (1) Drawbar vertical 4470 mm
 - (2) Drawbar horizontal 6200 mm
- b. Height
 - (1) Drawbar 870 mm
 - (2) Dolly frame..... 1070 mm
 - (3) Fifth wheel..... 1300 mm
 - (4) Drawbar raised..... 3750 mm

- c. Width..... 2440 mm
- d. Towing eye height
 - (1) F17 Coupling height on trailer..... 875 ± 75 mm
- e. Track..... 816 mm
- f. Wheel base 1400 mm
- g. Drawbar length 3100 mm
- h. Ground clearance..... 390 mm
- i. Limiting feature 'U' Bolts

10. **Dimensions - 20CD4 - Tandem - Short Drawbar:**

- a. Length
 - (1) Drawbar vertical 4200 mm
 - (2) Drawbar horizontal 5500 mm
- b. Height
 - (1) Drawbar 870 mm
 - (2) Dolly frame..... 1070 mm
 - (3) Fifth wheel..... 1300 mm
 - (4) Drawbar raised..... 3650 mm
- c. Width..... 2440 mm
- d. Towing eye height
 - (1) F17 Coupling height on trailer..... 875 ± 75 mm
- e. Track..... 1816 mm
- f. Wheel base 1400 mm
- g. Drawbar length 2415 mm
- h. Ground clearance..... 390 mm
- i. Limiting feature 'U' Bolts

11. **Dimensions - 20CD2 - Single Point:**

- a. Length
 - (1) Drawbar vertical 4100 mm
 - (2) Drawbar horizontal 5440 mm
- b. Height
 - (1) Drawbar 960 mm
 - (2) Dolly frame..... 1140 mm
 - (3) Fifth wheel..... 1300 mm
 - (4) Drawbar raised..... 3660 mm
- c. Width..... 2440 mm
- d. Towing eye height
 - (1) F17 Coupling height on trailer..... 875 ± 75 mm
- e. Track..... 816 mm

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- f. Wheel base 1372 mm
g. Drawbar length..... 2715 mm
h. Ground clearance 390 mm
i. Limiting feature..... ‘U’ Bolts
12. **Bridge Classification** 12
13. **Axles:**
a. Manufacturer Dana/Spicer
b. Type..... D22
14. **Suspension - 20CD4 - Tandem:**
a. Manufacturer Engineered Transport Equipment
b. Type..... ETE 1.4M Tandem
15. **Suspension - 20CD2 - Single point:**
a. Manufacturer Engineered Transport Equipment
b. Type..... HM Single point SP500, 9020SS
16. **Fifth Wheel:**
a. Manufacturer Holland Hitch
b. Type..... FW70 - 90 mm jaws
17. **Electrical System:**
a. Type..... 12 V dc
b. Connector 12 pin NATO
c. Lighting - Tandem
(1) Stop/tail/indicator:
Rear of dolly converter, 2 off, 21/5 Watts (Stop/tail), 21 Watts (Indicator).
(2) Number plate light:
Rear of dolly converter, 2 off, 10 Watt.
d. Lighting - Single point:
(1) Stop/Tail/Indicator:
Rear of dolly converter, 2 off, 21 Watt (Stop/Indicator), 5 Watt (Tail).
(2) Number Plate Light:
Rear of dolly converter, 2 off, 5 Watt.
18. **Lubricants:**
a. Chassis..... XG 274
- b. Wheel bearings:
Grease lubricated..... XG 274
- c. Wheel bearings:
Oil lubricated..... OEP 600
- d. Air valves XG 315
19. **Brakes:**
a. Foundation..... Dana/Spicer
b. Type..... Air/mechanical, SCE 1.250, internal expanding drum type, spring brakes on both axles.
c. Air system
(1) Type..... Twin line
(2) Manufacturer - Single point:
Westinghouse,
Kit - 900116-GR-30
(3) Manufacturer - Tandem:
Air Brake Corporation,
Kit - 3805-GR-30
(4) Coupling type Glad hand
20. **Manufacturer’s Details:** The following contact point is the prime contractor’s head office.
a. Manufacturer - Queensland:
Haulmark Trailers (Australia)
1848 Ipswich Road
ROCKLEA QLD 4108
Phone: (07) 3277 3666
Fax: (07) 3277 0296
b. Manufacturer - New South Wales:
Haulmark Trailers (Australia)
36 Riverside Road
CHIPPING NORTON NSW 2170
Phone: (02) 9755 3877
Fax: (02) 9755 2320
21. **Associated Information:**
a. SCES Nil
b. Repair Parts Scale (RPS) - Tandem..... 02240
c. Repair Parts Scale (RPS) - Single Point. 02241
d. Stock Item Group Code..... 2330-0004
e. Repair Manual..... EMEI VEH H 796-1
f. Servicing Instruction EMEI VEH H 799

END

List VEH H 080.0 - Code 2 (MEA 00363)